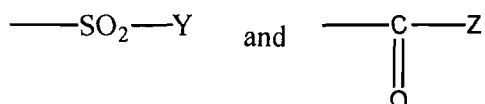
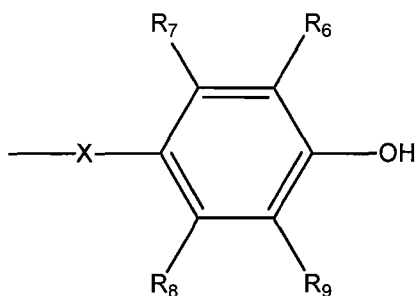


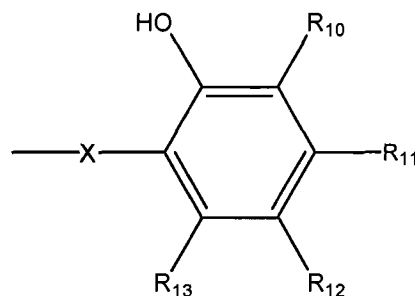
R_2 and R_4 are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, [[or]] and hydroxyl, [[or]] or, when R_1 , R_3 or R_5 is alkoxy having 1 to 4 carbons or hydroxyl, R_2 and R_4 are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl,



R₃ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, Formula (H) or (II), Formula [(III)] (III), —SO₂—Y, and —C(=O)—Z, wherein Y and Z are as defined above.

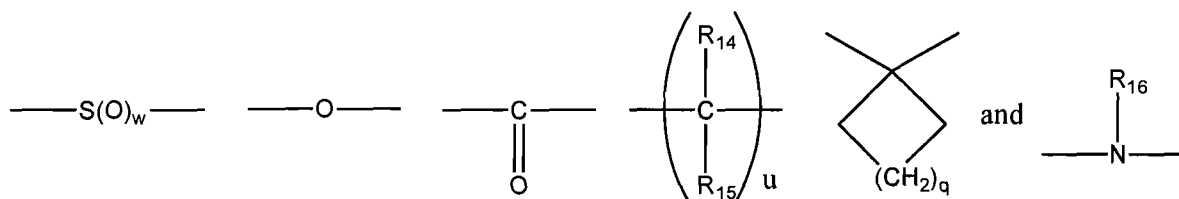


(II)



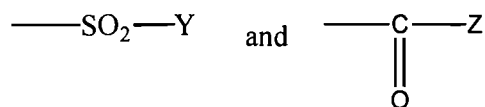
(III)

wherein X is selected from the group consisting of

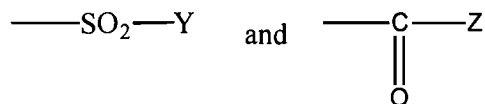


wherein w is 0, 1 or 2; u is 0 or 1; q is 0 to 4; R₁₄ and R₁₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, optionally substituted phenyl [[or]] and optionally substituted aralkyl; R₁₆ is selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, substituted phenyl [[or]] and substituted aralkyl;

R₆, R₉ and R₁₀ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, [[or]]

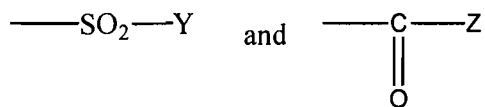


R₇, R₈, R₁₁, and R₁₃ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons [[or]] and hydroxyl, but when R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl, R₁₁ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, ~~hydroxyl or~~ hydroxyl,

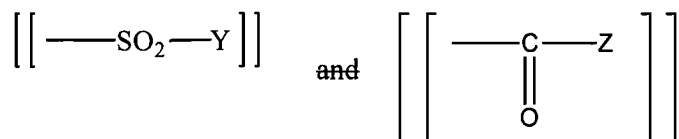


wherein Y and Z are as defined ~~above~~ when R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl; above;

R₁₂ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, ~~hydroxyl or selected from the group consisting of hydroxyl,~~

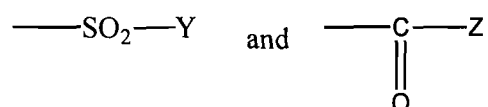


~~wherein Y and Z are as defined above, or selected from the group consisting of~~

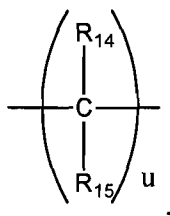


wherein Y and Z are as defined above, provided that

when R₃ is of Formula (II), one of R₁, R₅, R₆, and R₉ is selected from the group consisting of

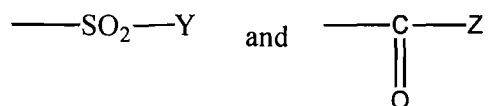


wherein Y and Z are as defined above, in which, when X is

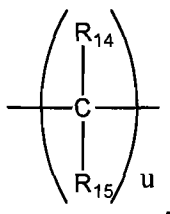


at least one of R₁, R₂, R₄, R₅, R₆, R₇, R₈, and R₉ is $\text{---SO}_2\text{---Y}$, and

when R₃ is of Formula (III), at least one of R₁, R₅, and R₁₀ is selected from the group consisting of



in which, when X is



at least one of R₁, R₂, R₄, R₅, R₁₀, R₁₁, R₁₂, and R₁₃ is $\text{---SO}_2\text{---Y}$,

wherein Y and Z are as defined above, and

$$\text{---SO}_2\text{---Y} \quad \text{[[and]]} \quad \left[\left[\begin{array}{c} \text{---C---Z} \\ || \\ \text{O} \end{array} \right] \right]$$

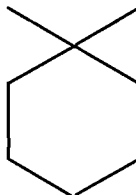
the phenol derivative is reacted with an organic compound under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

(IV)

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(V)

$\text{---S(O)}_w\text{---}$
 ---O---
 ---C(=O)---
 $\text{---(CH}_2)_u\text{---}$

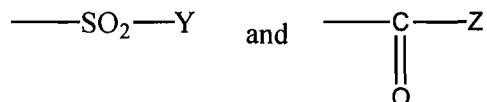
$\text{---C(CH}_3)_2\text{---}$
 $\text{---C(CH}_3)_3$
 $\text{---C(CH}_3)(\text{C}_6\text{H}_5)\text{---}$
 and
 

R₂₆, R₂₇, R₃₀ and R₃₂ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons [[or]] and alkenyl having 2 to 4 carbons;

$$\text{---SO}_2\text{---Y} \quad \text{and} \quad \begin{array}{c} \text{---C---Z} \\ || \\ \text{O} \end{array}$$

naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

at least one of R₂₅, R₂₈ and R₂₉ is selected from the group consisting of



wherein Y and Z are selected from the group consisting of as defined above, and

~~alkyl having 1 to 6 carbons,~~

~~alkenyl having 2 to 6 carbons,~~

~~cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,~~

~~cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,~~

~~phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,~~

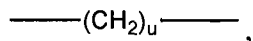
~~benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,~~

~~phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,~~

~~α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or~~

~~naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,~~

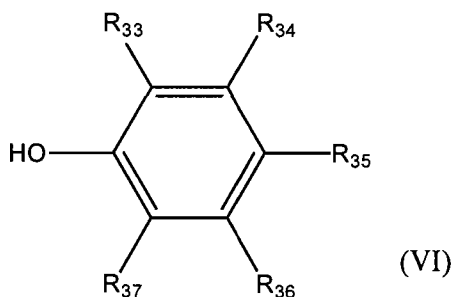
when B is



at least one of R₂₅, R₂₈, R₂₉, and R₃₁ is —SO₂ —Y wherein Y is as defined above, and

an organic compound as the second reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

Claim 4 (**Currently Amended**). A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (VI)



wherein R₃₃ is ~~selected from the group consisting of~~



naphthyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

when R₃₆ is $\left[\left[\begin{array}{c} \text{---C---Z} \\ || \\ \text{O} \end{array} \right] \right]$, R₃₃ is $\left[\left[\text{---SO}_2\text{---Y} \right] \right]$; and

when R₃₄ is $\left[\left[\begin{array}{c} \text{---C---Z} \\ || \\ \text{O} \end{array} \right] \right]$, R₃₇ is hydrogen, alkyl having 1 to 4 carbons, alkenyl

Claims 5-15 (Cancelled).

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[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[I);] (I) as defined in Claim 1; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 17 (**Currently Amended**). A molecular compound ~~according to Claim 2, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[IV);] (IV) as defined in Claim 2; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 18 (**Currently Amended**). A molecular compound ~~according to Claim 3, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[(V);]] (V) as defined in Claim 3; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claim 19 (**Currently Amended**). A molecular compound ~~according to Claim 4, in which~~
~~the molecular compound contains, as constituents:~~ comprising:

[[a]] ~~the phenol derivative selected from the group consisting of~~ represented by Formula
[[(VI);]] (VI) as defined in Claim 4; and

a material that reacts with the phenol derivative to form a molecular ~~compound~~ compound,
the material selected from the group consisting of antibacterial agents, antifungal agents,
insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for
coating materials, accelerators for coating materials, resins, adhesives, natural essential oils,
antioxidants, vulcanization accelerators and organic solvents.

Claims 20-31 (**Cancelled**).